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DIALOG(R) File 351:Derwent,WPI

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009752158

WPI Acc No: 1994-032009/ 199404

XRAM Acc No: C94-014805

Hot-melt adhesive compsn for bonding biodegradable plastics - contains high mol thermoplastic resin and tackifier, either or both contg polylactic acid copolymer resin

Patent Assignee: MITSUI TOATSU CHEM INC (MITK)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5339557	A	19931221	JP 92152177	A	19920611	199404 B

Priority Applications (No Type Date): JP 92152177 A 19920611

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 5339557	A		16	C09J-167/04	

Abstract (Basic): JP 5339557 A

The compsn. contains thermoplastic resin and a tackifier, one or both of them contg. poly-lactic acid or lactic acid copolymer resin derived from lactic acid and other hydroxycarboxylic acids. The system has a melt viscosity of 10 to 300,000 cps. at 180 to 210 deg.C. A part or whole of the thermoplastic resin and/or tackifier is L type and/or D type poly-lactic acid or lactic acid copolymer resin derived from L type and/or D type lactic acid and other hydroxycarboxylic acids. The thermoplastic resin is one of or a mixt. of two or more of high molecular modified poly-lactic acid having a molecular wt. of higher than 10,000 on average selected from (a) urethanated poly-lactic acid, (b) esterified poly-lactic acid, (c) epoxy-modified poly-lactic acid, (d) urethanated modified poly-lactic acid, (e) silylated poly-lactic acid and (f) terminal esterified poly-lactic acid. The tackifier is one or more of low molecular poly-lactic acid having a mol. lower than 5,000 on average selected from (a) to (f). Other thermoplastic resins are polyamide, polyester, polyester-urethane, polycarbonate and polyolefin and other tackifiers are rosin ester and terpene-phenol resin. At least one wax component selected from natural wax, ester-amide wax and polyester wax and/or compatibilising plasticiser for poly-lactic acid is added to the compsn. in amt. 0.1 to 50 wt.%.

ADVANTAGE - The hot-melt adhesive compsn. is degraded by alkali water and microorganisms. Suitable for bonding of biodegradable plastics.

(Dwg.0/0)

Title Terms: ADHESIVE; COMPOSITION; BOND; BIODEGRADABLE; PLASTICS; CONTAIN; HIGH; MOLECULAR; THERMOPLASTIC; RESIN; TACKIFIER; CONTAIN; POLY; LACTIC; ACID; COPOLYMER; RESIN

Derwent Class: A17; A23; A81; G03

International Patent Class (Main): C09J-167/04

International Patent Class (Additional): C09J-163/00; C09J-175/04

File Segment: CPI

Manual Codes (CPI/A-N): A05-E02; A08-M05; A09-A07; A12-A05E; G03-B02E3

Plasdoc Codes (KS): 0004 0012 0034 0037 0149 0152 0155 0202 0218 0220 0222

0224 0226 0231 0232 0233 1283 1288 1291 1292 1296 1311 1838 1840 1985

1990 1999 2001 2014 2015 2022 2231 2236 2307 2315 2319 2488 2511 2560
2585 2606 2607 2684

Polymer Fragment Codes (PF):

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Polymer Indexing (PS):

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